

1. SMETANIN, B.
2. USSR (600)
4. Phonograph
7. Simple portable radiogramophone. Radio no.10, 1952.

9. Monthly List of Russian Accessions, Library of Congress. January 1953. Unclassified.

SMETANIN, B.M.

[Young radio builders] Iunyi radiokonstruktor. [Moskva] Molodnia gvardiia.  
1953. 207 p. (MLRA 6:12)  
(Radio)

~~SMETANIN, Boris Mikhaylovich; GUS'KOV, G.G., redaktor; SOKOLOVA, P.Ya.,  
tekhnicheskij redaktor~~

[Electric engineering in class 10] Elektrotehnika v X klasse.  
Moskva, Izd-vo Akademii pedagog. nauk RSFSR, 1956. 78 p.  
(MIRA 10:1)

(Electric engineering--Study and teaching)

~~SMETANIN~~, Boris Mikhaylovich; ZHEMAYTIS, S., redaktor; KIRILLINA, L.,  
tekhnicheskiy redaktor

[The young radio builder] IUnyi radiokonstrukter. [Moskva] Isd-vo  
TsK VLESN "Molodaya gvardiya," 1956. 286 p. (MLRA 9:10)  
(Radio--Amateurs' manuals)

AID P - 4923

Subject : USSR/Electronics  
Card 1/1 Pub. 89 - 7/17  
Author : Smetanin, B.  
Title : Radio receiver of the O-V-1 type  
Periodical : Radio, 7, 30-32, J1 1956  
Abstract : The author gives a popular description of two kinds of radio receivers of the PRZ-35 type, the battery and network fed makes. Four connection diagrams and drawings, 6 detailed photographs.  
Institution : None  
Submitted : No date

~~S~~METANIN, B.M., inzhener.

Practical work in electric engineering in the secondary school.

Politekh. obuch. no.3:17-30 Mr '57.

(MLBA 10:5)

(Electric engineering--Study and teaching)

SEETANIN, B.

Five commands by two wires. IUn.tekh. 3 no.5:77-78 My '59.  
(MIRA 12:7)

(Remote control)

22(1)

SOV/47-59-3-49/53

AUTHOR: Smetanin B.M., (Moscow)

TITLE: In the Schools of Moscow

PERIODICAL: Fizika v shkole, 1959, Nr 3, p 108 (USSR)

ABSTRACT: This is a survey of the activities of Moscow school-boys in the field of radio engineering. On the 100th birthday of the inventor of the radio, A.S.Popov, these activities received a special emphasis. Conferences, courses, contests and exhibitions organized by Moscow schools, the Young Pioneers and the Gorodskoy institut usovershenstvovaniya uchiteley (City Advanced Training Institute for Teachers) are intended to develop both theoretical and practical interest in problems of radio engineering and to demonstrate the practical achievements of individual schools in this field. Special stress is being laid on ultra-short wave transmissions. More than 20 school ultra-short

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SOV/47-59-3-49/53

· In the Schools of Moscow

· E.T. Krenkel', A.G. Rekach, V.A. Makkaveyev, A.V.  
Semenov and others.

Card 3/3

SMETANIN, B.M. (Moskva)

Testing the students' knowledge and skills in electrical engineering.  
Fiz.v shkole 21 no.3:77-79 My-Je '61. (MIRA 14:8)  
(Electric engineering—Study and teaching)  
(Grading and marking (Students))

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 7,  
p 118 (USSR) 14-57-7-14916

AUTHOR: Smetanin, D. A.

TITLE: Appraisal of Organic Matter Production in Some Parts  
of the Bering Sea and the Sea of Okhotsk (Ob otsenke  
produktsii organicheskogo veshchestva v nekotorykh  
rayonakh Beringova i Okhotskogo morey)

PERIODICAL: Tr. In-ta okeanol. AN SSSR, 1956, Vol 17, pp 192-203

ABSTRACT: The author makes a distinction between the concepts  
of "production" and "yield" of organic matter. By  
the first term he means the ability of the upper  
active layer to produce organic matter (phytoplankton)  
from the mineral salts accumulated in winter. These  
salts are brought up from the deeper layers by con-  
vection, or are regenerated by photosynthesis in the  
upper layer. The process of photosynthetic

Card 1/4

14-57-7-14916

Appraisal of Organic Matter Production (Cont.)

discernible from the very beginning of the spring florescence. Data on the period of florscence alone can be used for calculating the amount of biogenes used up in the areas of intensive mixing where there is substantial biogene migration from lower layers. In deep-water regions, where warming is slower and the zone of temperature change is formed later, repeated observations must be made during the entire season in order to determine yield. The method of equivalence will not work in deep water. To compute, production the author has adopted Flemming's proportions, C: N: P = 41: 7.2:1. In a cold part of the Anadyr region phsophate consumption reached 1200 to 1500 mg P/sq m by September; when this amount is converted to organic matter, it produces a yield of 50 to 60 C/sq m. Phosphate consumption is 1500 to 5500 mg P/sq m and production is 60 to 225 g C/m<sup>2</sup> in the area where shallow waters and deep ocean waters are mixed. A cross section of the ocean near Cape Navarin produced corresponding values of 2000 to 3000 mg P/sq m and 80 to 120 g C/sq m. The open parts of the Bering Sea have a lesser yield than the

Card 3/4

SMETANIN, D. ~~A~~.

Smetanin, D. H., Hydrochemistry of the region of the Kuril-Kamchatka depression. Report No 1 certain problems of hydrology and chemistry of lower subarctic water in the region of the Kuril-Kamchatka depression, Tr. In-ta okeanol. AN SSSR (Works of the Institute of Oceanology, Academy of Sciences USSR), No 27, 1958, p 22-54; (RZhGeofiz 4/59-3553)

SMETANIN, D.A.

Origin of the layer of oxygen minimum and characteristics of  
its position in the ocean. Trudy Inst.Okean. 33:3-42 '59.  
(MIRA 13:4)

(Sea water--Oxygen content)

SMETANIN, D.A.

Hydrochemistry of the region of the Kurile-Kamchatka Trench.  
Report No.2: Hydrology and chemistry of upper subarctic waters  
in the region of the Kurile-Kamchatka Trench. Trudy Inst.  
Okean. 33:43-86 '59. (MIRA 13:4)  
(Japanese trench--Water--Composition)

LYUTSAREV, S.V.; SMETANIN, D.A.

Obtaining "silica-free" and "phosphate-free" sea water. Trudy Inst.  
ocean. 35:30-32 '59. (MIRA 13:3)  
(Saline waters---Demineralization)





SMETANIN, D.A.

Some chemical features of water in the central part of the Pacific  
Ocean. Trudy Inst.ocean. 40:58-71 '60. (MIRA 14:8)  
(Pacific Ocean--Water--Composition)

SHIREY, V.A., otv. red.; SMETANIN, D.A., red.

[Materials on oceanographic research; research ship "Vityaz'": Pacific Ocean, October 1958 - March 1959] Materialy okeanologicheskikh issledovaniy; ekspeditsionnoe sudno "Vityaz'": Tikhii okean, oktiabr' 1958 g. - mart 1959 g. Moskva. Nos.1-2. [Hydrology, hydrochemistry] Gidrologiya, gidrokhimiya. 1961. 226 p. (MIRA 14:11)

1. Akademiya nauk SSSR. Institut okeanologii.  
(Pacific Ocean—Ocean temperature) (Pacific Ocean—Sea water—Density)  
(Pacific Ocean—Sea water—Composition)

SMETANIN, D.A.

Some features of the chemistry of waters in the northeastern part  
of the Pacific Ocean according to observations made in the winter  
of 1958-59. Trudy Inst.ocean. 45:130-141 '61. (MIRA 15:2)  
(Pacific Ocean--Sea water--Composition)

MOKIYEVSKAYA, V.V.; SMETANIN, D.A.

Methodological "International Station" in the Pacific Ocean.  
Okeanologiya 2 no.3:540-542 '62. (MIRA 15:7)  
(Pacific Ocean--Seawater--Analysis)

SMETANIN, D.A.

Some features of the meridional distribution of chemical  
characteristics in the Pacific Ocean. Trudy Inst. okean. 54:  
3-21 '62. (MIRA 16:6)

(Pacific Ocean—Sea water—Analysis)

SHESTAKOV, N.V., zasluzhennyy vrach RSFSR, kand. med. nauk (Kirov, tsentr.  
ul. Karla Marksa, d.62, kv.24); SMETANIN, F.M.

Use of a synthetic polyvinol solution as a plasma substitute  
in orthopedic operations on children. Ortop., travm. i protez.  
26 no.8:28-32 Ag '65. (MIRA 18:9)

1. Iz filiala Leningradskogo instituta perelivaniya krovi v  
Kirove (dir.- N.V. Shestakov) i Detskogo ortopedo-khirurgicheskogo  
otdeleniya (zav.- F.M. Smetanin) Kirovskogo oblastnogo gospihalya  
dlya invalidov Otechestvennoy voyny (nachal'nik - P.N. Smirnov).

130-10-12/18

*Smetanin, G.K.*  
AUTHOR: Smetanin, G.K.

TITLE: Organization and Growth of Labour Productivity (Organizatsiya i rost proizvoditel'nosti truda)

PERIODICAL: Metallurg, 1957, No.10, pp. 25 - 26 (USSR).

ABSTRACT: The author describes the over-fulfilment of targets at the "Dneprospetsstal'" Works in 1957 and traces the production per worker in 1953 - 56. He attributes the increase to reduction in numbers as well as to faster working. He expects further improvements from the introduction of the pouring of alloy-steel ingots under protective atmospheres at present being tested and better de-seaming methods. He outlines mechanisation measures being introduced and plant design modifications. He names some workers who have distinguished themselves (Loy, Buynov, Ryazantsev, Manusov and Shishlov) and mentions additional production targets adopted. There are 2 photographs (of Dmitri Pavlovich Shishlov and Mikhail Semenovich Semikopenko).

ASSOCIATION: "Dneprospetsstal'" Works (Zavod "Dneprospetsstal'")

AVAILABLE: Library of Congress.  
Card 1/1



SMETIN I., I. S.

25603 SMETIN, I.S. Noveyshie Izmeniya Urovnya Ozer v Stepyakh  
Zapadnoy Sibiri Izvestiya Vsesoyuz Geogr. O-Va, 1949, Vyp. 4, S 402-06--  
Bibliogr: 1<sup>o</sup> Nazv

So: Letopis' Zhurnal'nykh Statey, Vol. 34, Moskva, 1949

SMETANIN, I.

Construction on collective farms in Buryat-Mongolia. Sel'.streit. 11  
no.8:6 Ag '56. (MIRA 9:10)

1. Nachal'nik upravleniya po streitel'stvu v kolkhosakh pri Sovete  
Ministrov Buryat-Mongol'skoy ASSR.  
(Buryat-Mongolia--Construction industry) (Collective farms)

SMOTANIN, I.S.

Comments on E.N. Ivanova's and H.N. Rozov's article "Present state  
and development of soil classification." Pochvovedenie no.6:79-81  
Ja '59. (MIRA 12:9)

(Soils--Classification)

GRADOBOYEV, Nikolay Dmitriyevich; PRUDNIKOVA, Vera Mikheyevna; SMETANIN,  
Ivan Semenovich; MAKHOV, M.K., red.; SHATOKHIN, V.I., tekhn. red.

[Soils of Omsk Province] Pochvy Omskoi oblasti. Omsk, Omskoe  
knizhnoe izd-vo, 1960. 372 p. (MIRA 14:9)  
(Omsk Province--Soils)

ROZOV, M.I., inzh.; LOGINOV, I.P., svarshchik; SMETANIN, I.A., svarshchik

All-purpose semiautomatic machine for welding with a consumable  
electrode in protective atmosphere and under flux. Sbor.st.  
NIIKHIMMASH no.33:24-35 '60. (MIRA 15:5)  
(Welding—Equipment and supplies)

SMETANIN, I.S.

"Nature of Tomsk Province" by B.G.Ioganzhen. Izv.Vses.geog.ob-va  
95 no.3:273-274 My-Je '63. (MIRA 16:8)  
(Tomsk Province--Natural history) (Ioganzhen, B.G.)

MIKHAYLOV, Stefan Vasil'yevich, Laureat Gosudarstvennoy premii, kand.  
ekon. nauk; VASYUTIN, V.F., retsenzent; MURIN, V.A., retsen-  
zent; SMETANIN, K.A., kand. ekon. nauk, spetsred.; NOZDRINA,  
V.A., red.; SATAROVA, A.M., tekhn. red.

[Economics of the fishing industry of the U.S.S.R.] Ekonomika  
rybnoi promyshlennosti SSSR. Moskva, Pishchepromizdat, 1962.  
288 p. (MIRA 15:12)

(Fisheries)

SMETANIN, L.A.

Diagnosis of benign tumors of the lung. Vest.khir.76 no.9:62-68  
O '55. (MLRA 9:1)

1. Iz 2-7 fakul'tetskoy khirurgicheskoy kliniki (nach-prof. P.A.  
Kupriyanov) Voenno-meditsinskoy ordena Lenina Akademii i m.  
S.M.Kirova.

(LUNGS, neoplasms,  
benign tumors, dis.)



SMETANIN, L.A.

Bronchial obturator. Vest.khir.76 no.9:114-115 0 '55.(MLRA 9:1)

1. Is 2-y fakul'tetskoy khirurgicheskoy kliniki (nach-prof.  
P.A.Kupriyanov) Voyenno-meditsinskoy ordena Lenina akademii  
im. S.M.Kirova.

(LUNGS, surg.  
appar. for bronchial block)

MELANIN, .A

"The Use of Potentiated Anesthetization and Hypothermia in the Treatment of Patients With Severe Traumatic Injuries," by Prof A. N. Berkutov, A. A. Volikov, Candidate of Medical Sciences; and L. A. Smetanin, Clinic of Battlefield Surgery (head, Prof A. N. Berkutov), Military Medical Order of Lenin Academy imeni S. M. Kirov, Vestnik Khirurgii imeni Grekova, Vol 77, No 9, Sep 56, pp 19-28

The authors, basing their conclusion on 96 operations for severe traumatic injuries, think that massive blood transfusion is the best method to overcome the shock of seriously injured patients in third-degree shock, and that neuroplegic drugs combined with local anesthesia and especially potentiated ether-oxygen narcosis and hypothermia are very effective methods for shock treatment.

The more severe the condition of the patient and the more prolonged the surgical intervention is to be, the more one is forced to resort to potentiated ether-oxygen intratracheal anesthesia.

Hypothermia is best applied in cases of extremely severe and extensive injuries and in cases of marked injuries to the respiratory mechanism and hemodynamics. (U)

22

SM.1374

BERKUTOV, A.N., polkovnik med. sluzhby, prof.; VOLIKOV, A.A., podpolkovnik  
med. sluzhby, kand. med. nauk; SMETANIN, L.A., mayor med. sluzhby

Potentiated anesthesia and hypothermia under clinical conditions  
and the possibility of using them under field conditions. Voen. med.  
zhur. no.1:50-56 Ja '57 (MIRA 12:7)

(ANESTHESIA,

potentiated, in clin. & military field cond. (Rus))

(HYPOTHERMIA,

in surg. in clin. & military field cond. (Rus))

(MEDICINE, MILITARY AND NAVAL,

hypothermia & potentiated anesth. in military clin. &  
field cond. (Rus))

SMETANIN, L.A., mayor meditsinskoy sluzhby

Field anesthetic apparatus. Voen.-med.zhur. no.8:86-87 Ag '57.  
(MIRA 10:12)

(ANESTHESIA, INHALATION, apparatus and instruments,  
military field appar. (Rus))

(MEDICINE, MILITARY AND NAVAL,  
military field anesth. appar. (Rus))

МОНДРИН, А.И., ~~МОНДРИН, А.И.~~ МОНДРИН, А.И.; МОЛЫШОВ,  
С.П., ~~МОЛЫШОВ, С.П.~~

Modification of the surface properties of capron fibers by  
grafting polystyrene. Dokl. Akad. Nauk SSSR 196 no. 2, 372-374  
By 1964. (U.S.A. 17:7)

I. Filial Fiziko-khimicheskogo instituta imeni Kurpova.  
Predstavleno akademikom V.A. Gerasimov.

SKRYNNIKOVA, G.N.; MATVEYEVA, N.I.; SHCHADIN, L.I.; CHERNYKH, V.I.

Testing the new design of a high-frequency titrimeter. Trudy  
VNIIT no.13:213-218 '64. (1964)

SMETANIN, M.

Disintegration of the imperialist colonial system. Blok. agit.  
vod. transp. no.12:35-43 Je '56. (MLRA 9:8)  
(Colonies) (World politics)

SMETANINA, M. A.

"The Effectiveness of Measures Taken to Combat Ixodid Ticks in the  
Tatar ASSR."

Tenth Conference on Parasitological Problems and Diseases with Natural  
Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of  
Sciences, USSR, Moscow-Leningrad, 1959.

Republic Sanitation and Epidemiology Station (Kazan')



ISUI OV, V.F., inzh.; SMETANIN, M.V., inzh.

New developments in research. Stal' 25 no.10:919 0 '65.  
(MITA 18:11)

SMYTNIN, N.

Tenth anniversary of the Vietnamese Democratic Republic. Sov.  
profsoiuzy 3 no.8:61-65 Ag'55. (MIRA 8:10)  
(Vietnam, North--Politics and government)

SMETANIN, N. (Kuybyshev)

How to use the trim tab of the IAK-12A diving rudder. Grazhd. av.  
19 no.7:19 J1 '62. (MIRA 15:8)

1. Zamestitel' glavnogo inzhenera Privolzhskogo upravleniya  
Grazhdanskogo vozdushnogo flota.  
(Flight)

SMETANIN, N.A. (Moskva)

Harmonic linearisation of a component with variable structure.  
Avtom. i telemekh. 26 no.6:1005-1009 Je '65. (MIRA 18:7)

SMETANIN, N. I.

Digestibility of local beans and peas. Gig. sanit., Moskva.  
no. 8:32-37 Aug. 1950. (CJML 20:1)

1. Of the Division of Nutritional Hygiene, Uzbekistan Scientific-  
Research Sanitary Institute, Tashkent.

DATA FORM, 174

AID P - 1495

Subject : USSR/Medicine

Card 1/1 Pub. 37 - 10/19

Author : Smetanin, N. I., Dotsent

Title : Methods of injections for tests on animals in the study of lung pathology

Periodical : Gig. i san., 2, 45-46, F 1955

Abstract : A study of the biological effect of industrial dust on the organism of various animals. The author suggests a method he worked out in 1952 in which different samples of dust are introduced in the trachea of animals with the help of special tubes. It better enables the comparative evaluation of the toxicity of separate kinds of dust. 1 illus.

Institution: Chair of Industrial Hygiene, Tashkent Medical Institute

Submitted : Ja 27, 1954

SMETANIN, N.I. (Tashkent)

Collecting dust particles smaller than 5 microns from the air  
for laboratory and experimental examination. Gig.truda i prof.  
zab. 2 no.2:52-54 Mr-Apr '58 (MIRA 11:6)

1. Kafedra gigiyeny truda meditsinskogo instituta.  
(DUST--ANALYSIS)

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SMETANIN, N. I.; SHRAYBET, L. B.; ARNOL'DI, I. A.; AKHMEROVA, A. A.;  
VENGERSAKYA, Kh. Ya.; DEMIDENKO, N. M.; LYUBETSKIY, Kh. A.; HASYROVA, V. Ye.

"Problems of toxicology of certain new insectofungicides used  
in cotton growing."

report submitted at the 13th All-Union Congress of Hygienists,  
Epidemiologists and Infectionists, 1959.

SMETANIN, N.I. (Tashkent)

Maximum permissible concentration of loess dust in the air of  
cotton-ginning plants. Gig.truda i prof.zab. 3 no.4:53-54  
J1-Ag '59. (MIRA 12:11)

1. Kafedra gigiyeny truda Meditsinskogo instituta.  
(COTTON GINS AND GINNING--HYGIENIC ASPECTS)

SMETANIN, N.I., dotsent

Application of standards for permissible concentrations of dust  
in the air of living quarters. Gig. i san. 24 no.12:63-64 D '59.  
(MIRA 13:4)

1. Is kafedry gigiyeny truda Tashkentskogo meditsinskogo instituta.  
(HOUSING)  
(DUST)

DANILOVA, R.I., prof.; SMETANIN, N.I., dotsent; PLATONOVA, L.I.

Morphological changes in the organs of animals under the influence  
of the cotton defoliant, endotal. Med. zhur. Uzb. no.6:32-35 Je '60.  
(MIRA 15:2)

1. Iz kafedry patologicheskoy anatomii Tashkentskogo gosudarstvennogo  
instituta usovershenstvovaniya vrachey, kafedry gigiyeny truda  
Tashkentskogo gosudarstvennogo meditsinskogo instituta i Uzbekskogo  
respublikanskogo onkologicheskogo dispansera.  
(OXABICYCLOLEPTANEDICARBOXYLIC ACID--PHYSIOLOGICAL EFFECT)

SMETANIN, N. I.

Doc Med Sci - (diss) "Silicosogenic properties of soil dust and prophylaxis of dust affections in persons occupied in cotton raising." Moscow, 1961. 22 pp; (Ministry of Public Health USSR, Central Inst for Advanced Training of Physicians); 300 copies; price not given; list of author's work on pp 21-22 (16 entries); (KL, 6-61 sup, 235)

SMETANIN, Nikolay Ivanovich; SCSNOVSKIY, Serafim Il'ich; YUSUPOV, Karim  
Yusupovich; TRET'YAKOVA, N.M., red.; TSAY, A.A., tekhn. red.

[Work hygiene and occupational diseases in various types of  
industry in Uzbekistan] Gigiena truda i professional'nye zabo-  
levaniia v otchel'nykh vidakh promyshlennosti Uzbekistana.  
Tashkent, Medgiz UzSSR, 1962. 128 p. (MIRA 16:7)

(UZBEKISTAN--INDUSTRIAL HYGIENE)

DANILOVA, R.I., prof.; SMETANIN, N.I., dotsent

Effect of the cotton defoliant foxex on the organism of  
experimental animals. Med.zhur.Usb. no.8:33-36 Ag '62.  
(MIRA 16:4)

1. Iz kafedry patologicheskoy anatomii Tashkentskogo  
gosudarstvennogo instituta usovershenstvovaniya vrachey i kafedry  
gigiyeny truda Tashkentskogo gosudarstvennogo meditsinskogo  
instituta.

(FOLEX)

SKRYNNIKOVA, G. N.; MATVEYEVA, N. I.; SMETANIN, L. L.

High-frequency titrimeter for the determination of strong and weak acids, bases, phenols, and salts in aqueous and nonaqueous media. Trudy VNIIT no. 11:289-303 '62. (MIRA 17:5)



SMETANIN, N.I., doktor med. nauk

Prevention of occupational poisonings during the use of  
chemicals in cotton growing. Med. zhur. Uzb. no.7:9-17  
Jl '63. (MIRA 17:2)

1. Iz kafedry gigiyeny truda sanitarno-gigiyenicheskogo  
fakul'teta Tashkentskogo meditsinskogo instituta.

ACCESSION NR: AP4024194

S/0294/64/000/001/0094/0097

AUTHOR: Smetanina, L. I.

TITLE: Concerning the dynamic method of measuring high temperatures

SOURCE: Teplofizika vy\*sokikh temperatur, no. 1, 1964, 94-97

TOPIC TAGS: high temperature measurement, dynamic temperature measurement, convective heat exchange, heat transient, exponential heat transient, non-exponential heat transient, stationary gas flow

ABSTRACT: With an aim at checking whether the temperature of a heat receiver varies exponentially with the time during the transient, the differential equation of heat flow is analyzed for a contact heat receiver in the presence of purely convective heat exchange with a gaseous medium. It is shown theoretically that in the case of a cylindrical heat receiver introduced suddenly in a stationary

Card " 1/2

ACCESSION NR: AP4024194

gas stream perpendicular to the receiver, the transient is in general not exponential for purely convective heat exchange, owing to the temperature variation of the coefficient of specific heat of the material. It is concluded from this that when dynamic methods are used to measure high temperatures in a stationary gas flow it is necessary to analyze first the characteristic of the section of the transient curve used in the measurements. The errors resulting from the use of formulas based on an exponential dependence have been calculated by using the three-ordinate method with equal time intervals and is found to be appreciable, particularly at high temperatures. Orig. art. has: 1 figure, 10 formulas, and 2 tables.

ASSOCIATION: None

SUBMITTED: 06Nov63

DATE ACQ: 16Apr64

ENCL: 00

SUB CODE: PH

NR REF SOV: 002

OTHER: 000

Card 2/2

L 28005-66 EWT(1) RO

ACC NR: AP6018194

SOURCE CODE: UR/0242/65/000/004/0003/0007

AUTHOR: Smetanin, N. I.; Zairov, K. S.; Akhmedzhanov, K. A.

25  
B

ORG: None

TITLE: Certain questions concerning sanitary and hygienic evaluation of the use of poisonous chemicals in Uzbekistan

SOURCE: Meditsinskiy zhurnal Uzbekistana, no. 4, 1965, 3-7

TOPIC TAGS: toxicology, experiment animal, agriculture science

ABSTRACT: The authors classify the poisonous chemicals used in agriculture, particularly on cotton, in Uzbekistan into the four groups established by the Ukrainian Institute of Labor Hygiene and Occupational Diseases, on the basis of tests with laboratory animals: Group I with an LD<sub>50</sub> of less than 50 mg per kg; Group II with an LD<sub>50</sub> of 50-200 mg per kg; Group III with an LD<sub>50</sub> of 200-1000 mg per kg; and Group IV with an LD<sub>50</sub> over 1000 mg per kg. The authors apply the recommendations of Sbornik Ofitsial'nykh Materialov (Collection of Official Materials): Groups I should not be allowed in production research, since these chemicals cannot be used in agriculture; Group II may be permitted in production experiments under the strictest precautions. The authors present a table of 29 agricultural chemicals used in Uzbekistan, listing their use, LD<sub>50</sub> for laboratory animals, skin permeability and lethal dose, accumulative capacity, volatility, odor, and maximum permissible dose. They conclude that the five chemicals belonging to Group I should be replaced with less dangerous substances. Orig. art. has: 1 table. [JPRS]

SUB CODE: 06, 02 / SUBM DATE: 25May64

Card 1/1 *pla*

2

SAL'NIKOV, O.A.; SMETANIN, S.F.; LEVCHIK, Yu.E.

Program controlled milling machine. Stan.1 instr. 34 no.4:40  
Ap '63. (MIRA 16:3)

(Milling machines--Numerical control)

OLIFER, A.I., assistant; ROYTHURD, Z.G., assistant; SMETANIN, V.A.,  
assistant

Experimental study of the effect of railroad cars on bridges.  
Trudy DIIT no.32:24-31 '61. (MIRA 16:2)  
(Railroad bridges—Testing)

TERENT'YEV, B.P.; SMETANIN, V.A., red.; MOROZOVA, T.M., tekhn. red.

[Electric power supply for radio systems] Elektropitanie  
radioustroistv. Moskva, Sviaz'izdat, 1951. 251 p.  
(MIRA 16:8)

(Electric power supply to apparatus)  
(Electric current rectifiers)  
(Radio--Equipment and supplies)

L 04452-67

ACC NR: AP6014144 (A)

SOURCE CODE: UR/0143/65/000/012/0001/0007

AUTHOR: Akodis, M. M. (Doctor of technical sciences, Professor);  
Gritsuk, A. A. (Engineer); Smetanin, V. N. (Engineer)

ORG: Ural Polytechnic Institute im. S. M. Kirov (Ural'skiy politekhnicheskiy institut)

TITLE: Switching surges on 500-kv lines and required protection against them

SOURCE: IVUZ. Energetika, no. 12, 1965, 1-7

TOPIC TAGS: electric power transmission, overvoltage, switching surge

ABSTRACT: Various ideas and considerations re switching surges and protection against them are set forth; the probabilities of surges are taken into account. Insulator strings are tested by 1-4 msec rise-time impulses in the SSSR and by 250-300  $\mu$  sec impulses in the US (E. H. Gehrig et al., IEEE Trans., PAS, no. 1, 1964, 41-48). The number of tests is sufficient for calculating the standard probability distribution in the SSSR. The insulation level of a transmission line should be set: (a) on the basis of the switching-surge dry flashover voltage for

Card 1/2

UDC: 621.316.91.027.85



L 04452-67

ACC NR: AP6014144

lines without lightning arresters or (b) on the basis of the wet flashover voltage for lines protected by lightning arresters; no extra elements in the insulator string are required. The well-established opinion that surge voltages on no-arrester lines may reach 3 times phase voltage ( $3U_{ph}$ ) is questionable. The insulation level of a 500-kv line equipped with circuit-breakers that preclude dangerous arc re-striking is largely determined by the surges that follow automatic-reclosing operations and that substantially depend on the power network configuration; only the surges arising under symmetrical 3-phase conditions need be taken into account. Simulated tests have shown that the probability of surges exceeding  $2.6 U_{ph}$  on a 420-km 500-kv line, operating in a transmission network, is very low. The surges exceeding  $2.3 U_{ph}$  have occurred rather seldom on actual 500-kv lines. In some cases, 500-kv lines should be protected by lightning arresters, in others, by resistors shunting the arc-quenching circuit-breaker contacts. Orig. art. has: no figures, formulas, or tables.

SUB CODE: 091C/ SUBM DATE: 21Jun65 / ORIG REF: 013 / OTH REF: 003

Card 2/2

SESTAKIN, V.V. (Ussuriysk)

Existence of a linear operator for a specified characteristic  
function. Volzh. mat. sbor. no.1:169-172 '63.

(MIRA 19:1)

~~SMETANIN, Ya.~~, inzh., преподаvatel'; SOKOLOV, A., otvetstvennyy red.;  
DOVERMAN, I., red.

[Program of a course in the "Technology of ceramic and plastic radio parts" for technical schools of the Ministry of the Radio Engineering Industry specializing in the "Manufacture of radio insulation materials and radio parts"] Programma kursa "Tekhnologiya keramicheskikh i plastmassovykh radioizdelii" dlia tekhnikumov MRTTP po spetsial'nosti "Proizvodstvo radioizolatsionnykh materialov i radiodetalei." Moskva, 1956. 19 p. (MIRA 11:8)

1. Russia (1923- U.S.S.R.) Ministerstvo radiotekhnicheskoy promyshlennosti. Upravleniye uchebnymi zavedeniyami. 2. Gor'kovskiy elektromekhanicheskiy tekhnikum (for Smetanin).  
(Radio--Apparatus and supplies)

~~SMITANIN, Ya.~~, преподаvatel'; SOKOLOV, A., otvetstvennyy red.; DOVERMAN, I., red.

[Construction and design of radio parts; program for specialized secondary schools in the subject: "Manufacture of radio insulating materials and radio parts"] Konstruktsiia i raschet elementov radioapparatury; programma dlia srednikh spetsial'nykh uchebnykh zavedenii po spetsial'nosti "Proizvodstvo radioizolatsionnykh materialov i radiodetalei." Moskva, 1958. 18 p. (MIRA 11:8)

1. Russia (1923- U.S.S.R.) Tsentral'nyy uchebno-metodicheskiy kabinet po srednemu spetsial'nomu obrazovaniyu. 2. Gor'kovskiy elektromekhanicheskiy tekhnikum (for Smitanin).  
(Radio--Apparatus and supplies)

ACC NR: AM023426 (A)

SOURCE CODE: UR/0190/65/008/007/1164/1168

AUTHOR: Kurilenko, A. I.; Aleksandrova, L. B.; Smetanina, L. B.

ORG: none

TITLE: Effect of grafting of polystyrene on the surface properties of polycaproamide and polyethylene terephthalate fibers

SOURCE: *Vysokomolekulyarnyye soyedineniya*, v. 8, no. 7, 1966, 1164-1168

TOPIC TAGS: polyethylene terephthalate, polycaproamide, polystyrene, synthetic fiber, adhesive bonding

ABSTRACT: The effect of grafting of polystyrene to polycaproamide (capron) and polyethylene terephthalate (dacron) fibers on the strength of their adhesive bond with thermosetting polymers (pure oligomers MGF-9, PN-1, ED-5, E-41) was studied. The grafting was performed by the post-effect method from the gas phase. The adhesion of the grafted capron and dacron fibers to the four thermosetting polymers and the wettability of these fibers were shown to depend on the amount of grafted polystyrene and to change in symbatic fashion. The amount of grafted polymer was proportional to the duration of the grafting process, but the rate of grafting in the surface layer decreased with time. Qualitatively, the grafting of polystyrene to the fibers had the same effect on their adhesion to all four polymers: in all cases, the strength of the bond increased in the presence of less than 1% of grafted polystyrene, then dropped to

Card 1/2

UDC: 66.095.26+678.01153/.54+678.674/.675

L 414CC-00 EAT(d)/EWI(m)/EWP(w)/EWF(v)/ENP(k) IJF(c) WWP/EM/RM  
ACC NR: AR6014928

SOURCE CODE: UR/0124/65/000/011/V009/V009

AUTHOR: Smetanina, L. N.

TITLE: Nonlinear problem of the static stability of orthotropic shells with external transverse pressure

SOURCE: Ref. zh. Mekhanika, Abs. 11V67

REF SOURCE: Sb. aspirantsk. rabot. Voronezhsk. lesotekhn. in-t, vyp. 2, 1964, 60-65

TOPIC TAGS: cylindric shell structure, shell structure stability, orthotropic shell, shell buckling

ABSTRACT: The stability of an orthotropic hinged circular cylindrical shell with initial buckling under the action of a uniform transverse pressure is considered on the basis of the equations of the Margerr theory for slightly sloping shells with residual buckling. The Ritz method is used. The initial buckling  $w_0$  and the buckling  $w$  with deformation are presented in the form

$$\frac{w_0}{W_0} = \frac{w}{W} = \sin \frac{\pi x}{l} \sin n\varphi + W_1 \sin^2 \frac{\pi x}{l} + W_2 \quad (*)$$

where  $W_0$ ,  $W$ ,  $W_1$  are the buckling amplitudes,  $W_2$  is the buckling of the ends of the shell,  $l$  is the length of the shell,  $x$  and  $\varphi$  are the axial and circumferential

Card 1/2

SLATKINA, A.A.

25312 SLATKINA, A.A. Organizatsiya Detskogo Kollektiva Kak Psikhoo-  
Terapevticheskiy Faktor. Sbornik Nauch. Rabot Psikhiatr. Bol'nitsy im.  
Kashchenko, No. 6, 1949, S. 192-96

SO: Letopis' No. 33, 1949

SOV/137-58-11-22955

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 161 (USSR)

AUTHORS: Mashura, G. P. , Mazayev, G. Ya. , Smetanina, A. I. . .

TITLE: Improvement of the Process for Annealing of Ball-bearing Steel  
(Usovershenstvovaniye rezhimov otzhiga sharikopodshipnikovoy stali)

PERIODICAL: Prom. -ekon. byul. Sov. nar. kh-va Sverdl. ekon. adm. r-na,  
1958, Nr 4, pp 12-17

ABSTRACT: At the im. Serov Kombinat experiments were carried out for studying the effect of the rate of heating on the quality of ShKh15-grade steel for developing an abbreviated process of annealing (A) for production of steel with a uniform distribution of granular pearlite and an H<sub>B</sub> of 207 - 170. As a result of the investigation the A time of the steel was reduced from 47 to 12 hours owing to the introduction of a "low preheat" in which the products of combustion of the three central burners are directed underneath the metal charge. An increase in the height of stacks on the sliding furnace bottom from 250 to 500 mm eliminated the immediate action of the products of combustion on the metal and thus did away with any local overheating and an increase of

Card 1/2



SOV/137-58-11-22955

Improvement of the Process for Annealing of Ball-bearing Steel

The damstone partitions from 700 to 1250 mm eliminated the overheating of the upper layers of the charge. Following is the new A process: The metal is heated to 600 - 790°C in two hours ( - 380 degrees/hour), there being practically no difference in the temperature between the top and the bottom of the charge during the whole process; the temperature of A during the final two hours of soaking is raised to 820°, the over-all time of the soaking at 790 - 820° is 6 hours, and that of the cooling is 4 hours.

A. B.

Card 2/2

USSR / Radiophysics

I

Abs Jour : Ref Zhur -Fizika, No 4, 1957, No 10051

Author : Kobzev, V.V., Smetanina, D.I.

Inst : Not given

Title : Design of Transistor Low Frequency Amplifiers.

Orig Pub : Elektrosvyaz', 1956, No 9, 13-25

Abstract : The authors discuss the problems in the choice of optimum instability coefficient with respect to dc, calculation of the value of the interstage capacitor, and also of the capacitor shunting the resistance in the emitter circuit (for a grounded-emitter circuit). Calculation of the matching of the stages is given and practical data are given on two and three stage amplifiers. The advisability of employing emitter repeaters for stage matching is noted. For input stages of low frequency amplifiers, it is recommended that the P1G transistor be used. It is reported that the P1G

Card : 1/2

USSR / Radiophysics.

I

Abs Jour : Ref Zhur - Fizika, No 4, 1957, No 10051

Abstract : transistor, when fed from one 3SL-30 dry cell, gives a voltage gain of approximately 37 at load resistance of 10 kilohms. Frequency characteristics, the curves of the dependence of the gain on the temperature, and tables of the amplifier parameters for Russian junction transistors are all given.

Card : 2/2

BREZHNEVA, K.M.; IVANOVA, I.B.; MOSHAROVA, T.S.; NIKOLAYEVSKIY, I.F.;  
SAVINA, A.S.; SMETANINA, D.I.; SUPOV, S.V.; FISHBAYN, T.I.;  
MURADYAN, A.G., otv.red.; VORONOVA, A.I., red.; MARKOCH, K.G.,  
tekhn.red.

[Transistor triodes and diodes] Poluprovodnikovye triody i  
diody. Moskva, Gos.izd-vo lit-ry po voprosam svyazi i radio,  
1961. 311 p. (MIRA 14:4)  
(Transistors)

PHASE I BOOK EXPLOITATION

SOV/6392

Brezhneva, K. M., T. S. Masharova, I. F. Nikolayevskiy, D. I. Smetanina, S. V. Supov, T. I. Fishbeyn, and A. B. Khotimskiy

Tranzistory i poluprovodnikovyye diody (Transistor and Semiconductor Diodes) Moscow, Svyaz'izdat, 1963. 646 p. Errata slip inserted. 40,000 copies printed.

Ed. (Title page): I. F. Nikolayevskiy; Ed.: L. I. Vengrenyuk;  
Tech. Ed.: K. G. Markoch.

PURPOSE: This handbook is intended for technicians and scientists concerned with the application of semiconductor devices. It may also be useful to students of radio engineering divisions in schools of higher education and to advanced radio amateurs.

COVERAGE: This is the second edition of the handbook and it differs from the first by giving more complete information, including data

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Transistor and Semiconductor Diodes

SOV/6392

concerning new transistors and diodes. It also introduces a new general chapter on transistors in which the physical meaning and significance of each parameter are explained in detail and lists the specific characteristics of the transistors commonly used in the USSR. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

Foreword	11
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PART ONE. TRANSISTORS

Ch. I. General Information	25
1. Principles of marking and classification	

Card 2/10

8/0020/64/156/002/0372/0374

ACCESSION NR: AP4036724

AUTHOR: Kurilenko, A. I.; Smetanina, L. B.; Aleksandrova, L. B.; Shirayeva, G. V.; Karpov, V. L.

TITLE: Modification of the surface properties of grafted polystyrene caprone fibers

SOURCE: AN SSSR. Doklady\*, v. 156, no. 2, 1964, 372-374

TOPIC TAGS: polystyrene, caprone fiber, polymer, gamma radiation, polyester, epoxoid, styrol sorption, styrol desorption, fiber resin, resin surface tension

ABSTRACT: The authors studied the effect of polystyrene grafts on caprone fibers using an industrial polyester, PN-1, and epoxoids. The grafting polymerization was initiated by Co<sup>60</sup>  $\gamma$ -radiation employing a method which first required exposure under vacuum and then was carried out in a gas phase. This process also provided for the development of homopolymers. Four experiments were performed. The results are presented in graphs showing the kinetics of destroyed radicals in caprone fibers, the kinetics of the sorption and desorption of styroles in caprone fibers, the influence of grafted polystyrenes on the wettability of fiber resins, and the influence of grafted polystyrenes on the adhesion of resins to caprone fibers. The surface tension of the resin in each of the experiments was constant and indicated

Card 1/2

ACCESSION NR: AP4036724

similar changes in wettability. Orig. art. has: 4 figures, 1 formula, and 1 equation.

ASSOCIATION: Filial fiziko-khimicheskogo instituta im. L. Ya. Karpova (Affiliate of the Physicochemical Institute)

SUBMITTED: 16Dec63

DATE ACQ: 03 Jun64

ENCL: 00

SUB CODE: MT, 00

NO REF SOV: 002

OTHER: 001

Card 2/2



L 00489-66 EWT(1)/T IJP(c)

ACCESSION NR: AP5020565

UR/0294/65/003/004/0623/0626

536.621:53.08

AUTHOR: Smetanina, L. I. ; Matveyeva, I. I. ; Bruk, Z. V. 13  
B

TITLE: Calorimetric detector for measuring the energy of an ionized beam

SOURCE: Teplofizika vysokikh temperatur, v. 3, no. 4, 1965, 623-626 21

TOPIC TAGS: temperature detector, calorimeter, heat transfer, thermal conductivity, ion beam, electron energy

ABSTRACT: The article describes the operating principles and the construction of a calorimeter based on heat transfer by thermal conductivity under steady state conditions. The instrument is applied as a detector for measuring the energy of an ionized beam in a deep vacuum. Choice of materials for the calorimeter must meet the following requirements: 1) the heat conductor must assure the required sensitivity of the instrument and measurement of the energy over a sufficient range and 2) the pickup (the surface turned toward the ionized beam) must have a minimum capacity for "secondary emission" and a stable degree of black-

Card 1/2

L 00489-66

ACCESSION NR: AP5020565

ness. Aluminum and molybdenum give good stability against "secondary emission".  
Orig. art. has: 2 formulas, 1 figure and 1 table

ASSOCIATION: None

SUBMITTED: 04Aug64

ENCL: 00

SUB CODE: TD

NR REF SOV: 001

OTHER: 002

*gw*  
Card 2/2

L 27310-66 EWT(m)/EPF(n)-2/EWP(j) IJP(c) WW/GG/RM  
 ACC NR: AP6008977 (A) SOURCE CODE: UR/0190/65/007/011/1935/1940

AUTHORS: Kurilenko, A. I.; Smetanina, L. V.; Aleksandrova, L. B.; Karpov, V. L.

ORG: Branch of the Physico-Chemical Institute im. L. Ya. Karpov (Filial fiziko-khimicheskogo instituta)

TITLE: Graft polymerization of styrene on caprone and lavsan fibers /First communication in the series "Modification of properties of highly oriented fibers by graft polymerization of vinyl monomers"

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 11, 1965, 1935-1940

TOPIC TAGS: caprone, radiation polymerization, graft copolymer, polymerization

ABSTRACT: It was the object of the investigation to extend the work published by A. I. Kurilenko, L. B. Smetanina, L. B. Aleksandrova, G. V. Shiryayeva, and V. L. Karpov (Dokl. AN SSSR, 156, 372, 1964) and to study the graft polymerization of styrene on caprone and lavsan fibers. The polymerization was initiated by a preliminary irradiation of the fibers in vacuum by  $Co^{60}$   $\gamma$ -radiation and subsequent exposure of the fibers to the monomer vapors or by direct irradiation of the fibers in the monomer vapor. The experimental results are represented in terms of the fractional weight increase of the fibers

$$\Delta P = \frac{P - P_0}{P_0} \cdot 100\%$$

UDC: 66.095.26+678.674+678.675+678.746

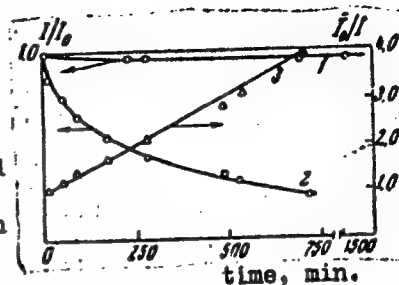
Card 1/2

L 27310-66

ACC NR: AP6008977

$P_0$  and  $P$ --the weight of specimen before and after graft polymerization. The kinetics of monomer sorption and disappearance of free radicals was studied. The experimental results are presented graphically (see Fig. 1).

Fig. 1. Kinetics of radical disappearance in caprone fibers. Fibers irradiated with 2.7 Mrad, intensity of radiation - 150 rad/sec, temperature 26C. 1 - epr signal intensity of irradiated fibers in the absence of styrene; 2 - in the presence of styrene; 3 - same as 2 but plotted in reciprocal coordinates.



It is concluded that the rate of styrene graft polymerization is controlled by the diffusion of styrene to the free radicals on the fibers. The grafting of styrene onto the fibers changes the mechanical properties of the latter. Orig. art. has: 2 tables, 3 graphs, and 1 equation.

SUB CODE: 11/ SUBM DATE: 19Dec64/ ORIG REF: 005/ OTH REF: 002

Card 2/2 90

SMETANINA, M.A.

Effectiveness of measures used in controlling Ixodes in the  
Tatar A.S.S.R. Med.paraz.i paraz.bol. 30 no.1:58-63 Ja '61.  
(MIRA 14:3)

1. Iz Respublikanskoy sanitarno-epidemiologicheskoy stantsii  
Ministerstva zdavookhraneniya Tatarskoy ASSR (glavnyy vrach  
I.Z. Mukhutdinov).

(TATAR A.S.S.R.—TICKS)

SMETANINA, M.A.

Control of Ixodes ticks, the transmitters of spring-summer tick-borne encephalitis. Kaz.med.zhur. no.3:5-8 My-Je '62. (MIRA 15:9)

1. Respublikanskaya sanitarno-epidemiologicheskaya stantsiya  
Tatarskoy ASSR (glavnyy vrach - I.Z.Mukhutdinov).  
(ENCEPHALITIS) (TICKS—EXTERMINATION)

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SICHILAVA, G.N., kand.med.nauk; SMETANINA, N.B.

Treatment of exudative pericarditis. Sbor. trud. Med. nauch. ob-vo  
Abkh. 2:265-271 '59. (MIRA 14:10)

1. Iz terapevticheskogo otdeleniya Respublikanskoy bol'nitsy imeni  
prof. A.A.Ostroumova Ministerstva zdavookhraneniya Abkhazskoy  
ASSR (glavnyy vrach G.N.Nadareyshvili).  
(PERICARDITIS)



SMETANINA, N.S.

Heat content of Antarctic waters. Okeanologiya 1 no.3:412-  
417 '61. (MIRA 16:11)

1. Institut okeanologii AN SSSR.

SMETANINA, N.S.

Maps of the vorticity of tangential wind over the Pacific Ocean.  
Trudy Inst. okean. 57:133-155 '62. (MIRA 16:10)



LYZIKOV, N.F., dotsent; ROSHCHINA, T. Ya., klinicheskiy ordinator;  
GORODETSKAYA, L.V.; SMETANINA, T.P.

Prevention of premature labor. Zdrav. Bel. 9 no.7:12-15 J1'63

1. Iz kafedry akusherstva i ginekologii ( zav. - dotsent N.F.  
Lyzikov) Vitebskogo meditsinskogo instituta ( rektor - prof.  
G.A. Medvedeva).

BARDIZH, V.V.; BEREZHNOY, Ye.F.; MOKHEL', L.L.; SMETANINA, V.M.

[Static and pulse characteristics of miniature cores with rectangular hysteresis loop] Staticheskie i impul'snye svoistva mikronnykh serdechnikov s priamougol'noi petlei gisteriza. Moskva, ITM i VT AN SSSR, 1961. 60 p.

(MIRA 15:9)

(Cores (Electricity))  
(Electronic calculating machines)

S/721/61/000/000/002/006

AUTHORS: Bardizh, V.V., Berezhnoy, Ye.F., Mokhel', L.L., Smetanina, V.M.

TITLE: Static and impulse properties of micron cores with a rectangular hysteresis loop.

SOURCE: Akademiya nauk SSSR. Institut tochnoy mekhaniki i vychislitel'noy tekhniki. Magnitnyye elementy ustroystv vychislitel'noy tekhniki; sbornik statey. Moscow, 1961, 31-55.

TEXT: The paper describes the static and impulse properties of the so-called micron cores (MC), that is, small magnetic strip cores made of 2-10  $\mu$  thick rolled alloy having a rectangular hysteresis loop (RHL). Such MC serve primarily in switching circuits, such as logical elements, decoders, trigger circuits, etc., in which the cores are subjected to magnetic reversal pulses which create magnetic fields that exceed the static coercive force by several times. MC are more temperature-stable and are magnetically more effective than ferrite cores. The thin and highly T-stable MC permit a more elevated maximal polarity-reversal frequency than ferrite cores. The paper reports experimental work performed at the IPMIVT (Institute of Precision Mechanics & Computer Engineering), AS USSR, in the development of both manufacturing and measuring equipment for the making and study of

Card 1/3

Static and impulse properties of micron cores ....

S/721/61/000/000/002/006

MC having the following dimensions: Thickness 2, 3, 5, and 10  $\mu$ ; strip width 1.25, 2.5, 5, 10, and 15 mm; IDiam 2.6, 3, 5, and 8 mm; number of strip coils 10, 25, 50, and 100. The alloys 79HM (79NM), 79HMA (79NMA), 34HKMII (34NKMP), and 50HII (50NP) developed by the Institute of Precision Alloys of the TsNIICChM (Central Scientific Research Institute of Ferrous Metallurgy) were employed. Cores made of the alloys 79NM and 79NMA exhibit similar static and impulse parameters which, with 2- and 3- $\mu$  thickness, are fairly good. A 5- $\mu$  thick core exhibits substantial deviations from the RHL. 2- and 3- $\mu$  cores of 79NM have the lowest value of the remagnetization constant (0.3 and 0.4  $\phi \cdot \mu\text{sec}$ ). Cores made of 79NM strip 3  $\mu$  thick operate with no appreciable changes in output signal up to 600-700 kcps of the sequence of polarity-reversal-current impulses in fields exceeding 10 times the coercive force. For 2- $\mu$  strip the respective frequency attains up to 800 kcps. Comparable frequency for ferrite cores: 300 kcps. Optimal static RHL is exhibited by 34NKMP cores, with a mean rectangularity coefficient for 5- $\mu$  strip cores: 0.96, 10- $\mu$  strip cores: 0.98, in a maximal field exceeding 5 times the coercive force. The less favorable impulse properties of cores made of the 34NKMP alloy and the 50NP alloy are discussed in detail. The use of MC made of the alloys 79NM (or 79NMA) with a strip thickness of 3  $\mu$  and less is recommended for remagnetization frequencies of several hundreds of kcps and of the alloy 34NKMP 5 and 10  $\mu$  thick for remagnetization frequencies of the order of tens of

Card 2/3

Static and impulse properties of micron cores ....

S/721/61/000/000/002/006

kcps. There are 46 figures, 7 tables, and 6 references (3 Russian-language Soviet, 1 German, and 2 English-language). The participation of a great number of staff members of the Special Engineering Bureau of Computer Engineering of the ITMiVT is acknowledged.

Card 3/3



PA 51/49T35

SMETANINA, Ye.

USSR/Radio  
Public Address Unit

Jul 49

"The 'UK-50' Receiving-PA Unit," I. Breydo, Ye.  
Smetanina, 5 pp

"Radio" No 7

A factory of the Min of Communications Equipment Industries is producing the UK-50, a 50-watt receiving-PA unit, and the U-50, a low frequency amplifier. The UK-50 is designed to relay central radio broadcasts, transmit from the local studio, and reproduce phonograph records.

~~51/49T85~~ 51/49T85

LEBEDEVA, G.N.; VIRAKHOVSKIY, G.S.; SMETANINA, Ye.K.

Effect of sulfuric acid impurities on the quality of ammonium sulfate. Koks i khim. no.6:40-42 '60. (MIRA 13:7)

1. Vostochnyy uglekhimicheskiy institut (for Lebedeva).
2. Magnitogorskiy metallurgicheskiy kombinat (for Virakhovskiy, Smetanina).

(Ammonium sulfate)      (Sulfuric acid)

VIRAKHOVSKIY, G.S.; SMETANINA, Ye.K.

Production of white ammonium sulfite. Koks i khim.  
no.7:40-43 '60. (MIRA 13:7)

1. Magnitogorskiy metallurgicheskiy kombinat.  
(Magnitogorsk—Ammonium sulfate)

SMETANINA, Ye.K.

Increasing the recovery coefficients of naphthalene and phenols from  
coal tar. Koks i khim. no.9:52-54 '61. (MIRA 15:1)

1. Magnitoporskiy metallurgicheskiy kombinat.  
(Naphthalene) (Phenols) (Coal tar)